

Microwave Frequency Nanomagnetic Dynamics by DC Spin-Polarized Current

- The interaction between spin polarized currents and magnetic moments of magnetic multilayers can propel different types of microwave-frequency magnetic dynamics that appear as peaks in the power spectra
- Characterization of fabricated structures seem to show that these excitations are limited by thermal effects and a scaling with square root of the temperature
- Microwave power generated by this mechanism may be a novel power source at nanoscale and the structures may provide a novel way of making resonators

